



Supplementary Figure S1. Phylogenetic tree based on full-length genome sequences of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) derived by sequencing.

Supplementary Table S1. The primer sequences of SARS-CoV-2 genome

Primer name	Pool 1/2	Sequences (5'→3')
SARS-CoV-2_1_Forward	Pool_1	ATTAAGGTTTATACCTTCCCAGGTA
SARS-CoV-2_1_Reverse	Pool_1	CAGCCACACAGATTTTAAAGTTCGT
SARS-CoV-2_2_Forward	Pool_2	CCAGGTAACAAACCAACCACTT
SARS-CoV-2_2_Reverse	Pool_2	GCCACACAGATTTTAAAGTTCGTTT
SARS-CoV-2_3_Forward	Pool_1	ACCAACCAACTTTCGATCTCTTGT
SARS-CoV-2_3_Reverse	Pool_1	CATCTTTAAGATGTTGACGTGCCTC
SARS-CoV-2_4_Forward	Pool_2	CTGTTTACAGGTTCCGACGCT
SARS-CoV-2_4_Reverse	Pool_2	TAAGGATCAGTGCCAAGCTCGT
SARS-CoV-2_5_Forward	Pool_1	CGGTAATAAAGGAGCTGGTGGC
SARS-CoV-2_5_Reverse	Pool_1	AAGGTGTCTGCAATTCATAGCTCT
SARS-CoV-2_6_Forward	Pool_2	GGTGTATACTGCTGCCGTGAAC
SARS-CoV-2_6_Reverse	Pool_2	CACAAGTAGTGGCACCTTCTTAGT
SARS-CoV-2_7_Forward	Pool_1	TGGTAAACTTCATGGCAGACG
SARS-CoV-2_7_Reverse	Pool_1	ATTGATGTTGACTTTCTCTTTTGGAGT
SARS-CoV-2_8_Forward	Pool_2	GGTGTGTTGGAGAAGGTTCCG
SARS-CoV-2_8_Reverse	Pool_2	TAGCGGCCTTCTGTAAAACACG
SARS-CoV-2_9_Forward	Pool_1	ATCAGAGGCTGCTCGTGTGTA
SARS-CoV-2_9_Reverse	Pool_1	TGCACAGGTGACAATTTGTCCA
SARS-CoV-2_10_Forward	Pool_2	AGAGTTTCTTAGAGACGGTTGGGA
SARS-CoV-2_10_Reverse	Pool_2	GCTTCAACAGCTTCACTAGTAGGT
SARS-CoV-2_11_Forward	Pool_1	ACTGGTGATTACAACCATAGAACAA
SARS-CoV-2_11_Reverse	Pool_1	CACAGGCGAACTCATTACTTCTGTA
SARS-CoV-2_12_Forward	Pool_2	TGAGAAGTGCTCTGCCTATACAGT
SARS-CoV-2_12_Reverse	Pool_2	TCATCTAACCAATCTTCTTCTGCTCT
SARS-CoV-2_13_Forward	Pool_1	GGAAATTTGGTCCACTTCTGCT
SARS-CoV-2_13_Reverse	Pool_1	TCATCAGATTCAACTTGCATGGCA
SARS-CoV-2_14_Forward	Pool_2	AAACATGGAGGAGGTGTTGCAG
SARS-CoV-2_14_Reverse	Pool_2	TTCACTCTTCAATTCAAAAAGCTTGA
SARS-CoV-2_15_Forward	Pool_1	TGCACAAATGTCTACTTAGCTGT
SARS-CoV-2_15_Reverse	Pool_1	ACCACAGCAGTTAAAACACCCT
SARS-CoV-2_16_Forward	Pool_2	CATCCAGATTCTGCCACTCTTGT
SARS-CoV-2_16_Reverse	Pool_2	AGTTTCCACACAGACAGGCATT
SARS-CoV-2_17_Forward	Pool_1	ACAGTGCTTAAAAAGGTAAAAGTGCC
SARS-CoV-2_17_Reverse	Pool_1	AACAGAACTGTAGCTGGCACT
SARS-CoV-2_18_Forward	Pool_2	AATTTGGAAGAAGCTGCTCGGT
SARS-CoV-2_18_Reverse	Pool_2	CACAACTTGCCTGTGGAGGTTA
SARS-CoV-2_19_Forward	Pool_1	CTTCTTTCTTTGAGAGAAGTGAGGACT
SARS-CoV-2_19_Reverse	Pool_1	TTTGTGGAGTGTTAACAATGCAGT
SARS-CoV-2_20_Forward	Pool_2	ACAACTGTTATCTTGCCACTGCAT
SARS-CoV-2_20_Reverse	Pool_2	AAATTGTTTATAAGAAAGTGTGCC
SARS-CoV-2_21_Forward	Pool_1	GCTGTTATGTACATGGGCACACT
SARS-CoV-2_21_Reverse	Pool_1	TGTCCAACCTAGGGTCAATTTCTGT
SARS-CoV-2_22_Forward	Pool_2	ACAAAGAAAACAGTTACACAACAACCA
SARS-CoV-2_22_Reverse	Pool_2	ACGTGGCTTTATTAGTTGCATTGTT
SARS-CoV-2_23_Forward	Pool_1	TGGCTATTGATTATAAACACTACACACCC
SARS-CoV-2_23_Reverse	Pool_1	TAGATCTGTGTGGCCAACCTCT
SARS-CoV-2_24_Forward	Pool_2	ACTACCGAAGTTGTAGGAGACATTATACT
SARS-CoV-2_24_Reverse	Pool_2	ACAGTATTCTTTGCTATAGTAGTCGGC
SARS-CoV-2_25_Forward	Pool_1	ACAACACTAACATAGTTACACGGTGT
SARS-CoV-2_25_Reverse	Pool_1	ACCAGTACAGTAGGTTGCAATAGTG
SARS-CoV-2_26_Forward	Pool_2	AGGCATGCCTTCTACTGTACTG
SARS-CoV-2_26_Reverse	Pool_2	ACATTCTAACCATAGCTGAAATCGGG
SARS-CoV-2_27_Forward	Pool_1	GCAATTGTTTTTCAGCTATTTTGCAGT
SARS-CoV-2_27_Reverse	Pool_1	ACTGTAGTGACAAGTCTCTCGCA

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Primer name	Pool 1/2	Sequences (5'→3')
SARS-CoV-2_28_Forward	Pool_2	TTGTGATACATTCTGTGCTGGTAGT
SARS-CoV-2_28_Reverse	Pool_2	TCCGCACTATCACCAACATCAG
SARS-CoV-2_29_Forward	Pool_1	ACTACAGTCAGCTTATGTGTCAACC
SARS-CoV-2_29_Reverse	Pool_1	AATACAAGCACCAAGGTCACGG
SARS-CoV-2_30_Forward	Pool_2	ACATAGAAGTTACTGGCGATAGTTGT
SARS-CoV-2_30_Reverse	Pool_2	TGTTTAGACATGACATGAACAGGTGT
SARS-CoV-2_31_Forward	Pool_1	ACTTGTGTTCTTTTTGTTGCTGC
SARS-CoV-2_31_Reverse	Pool_1	AGTGTACTCTATAAGTTTTGATGGTGTG
SARS-CoV-2_32_Forward	Pool_2	GCACAACCTAATGGTGACTTTTTGCA
SARS-CoV-2_32_Reverse	Pool_2	ACCACTAGTAGATACACAACACCAG
SARS-CoV-2_33_Forward	Pool_1	TTCTGAGTACTGTAGGCACGGC
SARS-CoV-2_33_Reverse	Pool_1	ACAGAATAAACACCAGGTAAGAATGAGT
SARS-CoV-2_34_Forward	Pool_2	TGGTGAATACAGTCATGTAGTTGCC
SARS-CoV-2_34_Reverse	Pool_2	AGCACATCACTACGCAACTTTAGA
SARS-CoV-2_35_Forward	Pool_1	ACTTTTGAAGAAGCTGCGCTGT
SARS-CoV-2_35_Reverse	Pool_1	TGGACAGTAAACTACGTCATCAAGC
SARS-CoV-2_36_Forward	Pool_2	TCCCATCTGGTAAAGTTGAGGGT
SARS-CoV-2_36_Reverse	Pool_2	AGTGAAATTGGGCTCATAGCA
SARS-CoV-2_37_Forward	Pool_1	TGTTGCGATTCAACCAGGACAG
SARS-CoV-2_37_Reverse	Pool_1	ACTTCATAGCCACAAGGTTAAAGTCA
SARS-CoV-2_38_Forward	Pool_2	TTAGCTTGGTTGTACGCTGCTG
SARS-CoV-2_38_Reverse	Pool_2	GAACAAAGACCATTGAGTACTCTGGA
SARS-CoV-2_39_Forward	Pool_1	ACACACCACTGGTTGTTACTCAC
SARS-CoV-2_39_Reverse	Pool_1	GTCCACACTCTCTAGCACCAT
SARS-CoV-2_40_Forward	Pool_2	ACTGTGTTATGTATGCATCAGCTGT
SARS-CoV-2_40_Reverse	Pool_2	CACCAAGAGTCAGTCTAAAGTGCG
SARS-CoV-2_41_Forward	Pool_1	AGTATTGCCCTATTTTCTTATAACTG
SARS-CoV-2_41_Reverse	Pool_1	TGTAAGTGACACATTGAGCCC
SARS-CoV-2_42_Forward	Pool_2	TGCACATCAGTAGTCTTACTCTCAGT
SARS-CoV-2_42_Reverse	Pool_2	CATGGCTGCATCACGGTCAAAT
SARS-CoV-2_43_Forward	Pool_1	GTTCCCTTCCATCATATGCAGCT
SARS-CoV-2_43_Reverse	Pool_1	TGGTATGACAACCATTAGTTTGGCT
SARS-CoV-2_44_Forward	Pool_2	TGCAAGAGATGGTTGTGTTCCC
SARS-CoV-2_44_Reverse	Pool_2	CCTACCTCCCTTGTGTGTTGT
SARS-CoV-2_45_Forward	Pool_1	TACGACAGATGTCTTGTGCTGC
SARS-CoV-2_45_Reverse	Pool_1	AGCAGCATCTACAGCAAAAGCA
SARS-CoV-2_46_Forward	Pool_2	TGCCACAGTACGTCTACAAGCT
SARS-CoV-2_46_Reverse	Pool_2	AACCTTCCACATACCCGACAGAC
SARS-CoV-2_47_Forward	Pool_1	CCTGTGGGTTTTACACTTAAAAACA
SARS-CoV-2_47_Reverse	Pool_1	AATTGTTTCTTCATGTTGGTAGTTAGAG
SARS-CoV-2_48_Forward	Pool_2	TGTCGCTTCCAAGAAAAGGACG
SARS-CoV-2_48_Reverse	Pool_2	CACGTTACCTAAGTTGGCGTA
SARS-CoV-2_49_Forward	Pool_1	AGGACTGGTATGATTTGTAGAAAACCC
SARS-CoV-2_49_Reverse	Pool_1	AATAACGGTCAAAGATTTTAACTCTC
SARS-CoV-2_50_Forward	Pool_2	TGTTGACACTGACTTAAACAAGCCT
SARS-CoV-2_50_Reverse	Pool_2	TAGATTACCAGAAGCAGCGTGC
SARS-CoV-2_51_Forward	Pool_1	AGGAATTACTTGTGTATGCTGCTGA
SARS-CoV-2_51_Reverse	Pool_1	TGACGATGACTTGGTTAGCATTAAACA
SARS-CoV-2_52_Forward	Pool_2	GTTGATAAGTACTTTGATTGTTACGATGGT
SARS-CoV-2_52_Reverse	Pool_2	TAACATGTTGTGCCAACCA
SARS-CoV-2_53_Forward	Pool_1	TCAATAGCCGCACTAGAGGAG
SARS-CoV-2_53_Reverse	Pool_1	AGTGCATTAACATTGGCCGTGA
SARS-CoV-2_54_Forward	Pool_2	CATCAGGAGATGCCACAACCTGC
SARS-CoV-2_54_Reverse	Pool_2	GTTGAGAGCAAATTCATGAGGTCC

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Primer name	Pool 1/2	Sequences (5'→3')
SARS-CoV-2_55_Forward	Pool_1	AGCAAAATGTTGGACTGAGACTGA
SARS-CoV-2_55_Reverse	Pool_1	AGCCTCATAAACTCAGGTTCCC
SARS-CoV-2_56_Forward	Pool_2	TGAGTTAACAGGACACATGTTAGACA
SARS-CoV-2_56_Reverse	Pool_2	AACCAAAAACCTTGCCATTAGCACA
SARS-CoV-2_57_Forward	Pool_1	ACTCAACTTTACTTAGGAGGTATGAGCT
SARS-CoV-2_57_Reverse	Pool_1	GGTGTACTCTCCTATTTGTACTTTACTGT
SARS-CoV-2_58_Forward	Pool_2	ACCTAGACCACCACTTAACCGA
SARS-CoV-2_58_Reverse	Pool_2	ACACTATGCGAGCAGAAGGGTA
SARS-CoV-2_59_Forward	Pool_1	ATTCTACTCTCCAGGACCACC
SARS-CoV-2_59_Reverse	Pool_1	GTAATTGAGCAGGGTCGCCAAT
SARS-CoV-2_60_Forward	Pool_2	TGATTTGAGTGTGTC AATGCCAGA
SARS-CoV-2_60_Reverse	Pool_2	CTTTTCTCCAAGCAGGGTTACGT
SARS-CoV-2_61_Forward	Pool_1	TCACGCATGATGTTTCATCTGCA
SARS-CoV-2_61_Reverse	Pool_1	AAGAGTCCTGTTACATTTTCAGCTTG
SARS-CoV-2_62_Forward	Pool_2	TGATAGAGACCTTTATGACAAGTTGCA
SARS-CoV-2_62_Reverse	Pool_2	GGTACCAACAGCTTCTCTAGTAGC
SARS-CoV-2_63_Forward	Pool_1	TGTTTATCACCCGGAAGAAGC
SARS-CoV-2_63_Reverse	Pool_1	ATCACATAGACAACAGGTGCGC
SARS-CoV-2_64_Forward	Pool_2	GGCACATGGCTTTGAGTTGACA
SARS-CoV-2_64_Reverse	Pool_2	GTTGAACCTTTCTACAAGCCGC
SARS-CoV-2_65_Forward	Pool_1	TGTTAAGCGTGTGACTGGACT
SARS-CoV-2_65_Reverse	Pool_1	ACAAACTGCCACCATCACAACC
SARS-CoV-2_66_Forward	Pool_2	TCGATAGATATCTGCTAATTCATTGT
SARS-CoV-2_66_Reverse	Pool_2	AGTCTTGTAAGTGTTCAGAGGT
SARS-CoV-2_67_Forward	Pool_1	GCTGGCTTTAGCTTGTGGGTTT
SARS-CoV-2_67_Reverse	Pool_1	TGTCAGTCATAGAACAACCAATAGT
SARS-CoV-2_68_Forward	Pool_2	GGGTGTGGACATTGCTGTAAT
SARS-CoV-2_68_Reverse	Pool_2	TCAATTTCCATTTGACTCTGGGT
SARS-CoV-2_69_Forward	Pool_1	GTTGTCCAACAATTACCTGAACTTACT
SARS-CoV-2_69_Reverse	Pool_1	CAACCTTAGAACTACAGATAAATCTTGGG
SARS-CoV-2_70_Forward	Pool_2	ACAGGTTCTAAGTGTGTGTGT
SARS-CoV-2_70_Reverse	Pool_2	CTCCTTTATCAGAACCAGCACCA
SARS-CoV-2_71_Forward	Pool_1	TGTCGCAAAATATACTCAACTGTGTCA
SARS-CoV-2_71_Reverse	Pool_1	TCTTTATAGCCACGGAACCTCCA
SARS-CoV-2_72_Forward	Pool_2	ACAAAAGAAAATGACTCTAAAGAGGGTTT
SARS-CoV-2_72_Reverse	Pool_2	TGACCTTCTTTAAAGACATAACAGCAG
SARS-CoV-2_73_Forward	Pool_1	ACAAATCCAATTCAGTTGCTTCTCTATTC
SARS-CoV-2_73_Reverse	Pool_1	TGGAAAAGAAAGGTAAGAACAAGTCTCT
SARS-CoV-2_74_Forward	Pool_2	ACACGTGGTGTATTACCCTGAC
SARS-CoV-2_74_Reverse	Pool_2	ACTCTGAACCTCACTTTCCATCCAAC
SARS-CoV-2_75_Forward	Pool_1	CAATTTTGTAAATGATCCATTTTGGGTGT
SARS-CoV-2_75_Reverse	Pool_1	CACCAGCTGTCCAACCTGAAGA
SARS-CoV-2_76_Forward	Pool_2	ACATCACTAGGTTTCAAACCTTACTTGC
SARS-CoV-2_76_Reverse	Pool_2	GCAACACAGTTGCTGATTCTCTTC
SARS-CoV-2_77_Forward	Pool_1	AGAGTCCAACCAACAGAATCTATTGT
SARS-CoV-2_77_Reverse	Pool_1	ACCACCAACCTTAGAATCAAGATTGT
SARS-CoV-2_78_Forward	Pool_2	GGCAAACCTGGAAGATTGCTGA
SARS-CoV-2_78_Reverse	Pool_2	TTGAAATTGACACATTTGTTTTAACC
SARS-CoV-2_79_Forward	Pool_1	CCAGCAACTGTTTGTGGACCTA
SARS-CoV-2_79_Reverse	Pool_1	CAGCCCCTATTAACAGCCTGC
SARS-CoV-2_80_Forward	Pool_2	CAACTTACTCTACTTGGCGTGT
SARS-CoV-2_80_Reverse	Pool_2	TGTGTACAAAACCTGCCATATTGCA

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Primer name	Pool 1/2	Sequences (5'→3')
SARS-CoV-2_81_Forward	Pool_1	GTGGTGATTCAACTGAATGCAGC
SARS-CoV-2_81_Reverse	Pool_1	CATTTTCATCTGTGAGCAAAGGTGG
SARS-CoV-2_82_Forward	Pool_2	TTGCCTTGGTGATATTGCTGCT
SARS-CoV-2_82_Reverse	Pool_2	TGGAGCTAAGTTGTTTAAACAAGCG
SARS-CoV-2_83_Forward	Pool_1	GCACTTGAAAACTTCAAGATGTGG
SARS-CoV-2_83_Reverse	Pool_1	GTGAAGTTCCTTTCTGTGCAGGG
SARS-CoV-2_84_Forward	Pool_2	GGGCTATCATCTTATGTCCTTCCCT
SARS-CoV-2_84_Reverse	Pool_2	TGCCAGAGATGTCACCTAAATCAA
SARS-CoV-2_85_Forward	Pool_1	TCCTTTGCAACCTGAATTAGACTCA
SARS-CoV-2_85_Reverse	Pool_1	TTTGACTCCTTTGAGCACTGGC
SARS-CoV-2_86_Forward	Pool_2	TGCTGTAGTTGTCTCAAGGGCT
SARS-CoV-2_86_Reverse	Pool_2	AGGTGTGAGTAACTGTTACAACAAC
SARS-CoV-2_87_Forward	Pool_1	ACTAGCACTCTCCAAGGGTGTT
SARS-CoV-2_87_Reverse	Pool_1	ACACAGTCTTTTACTCCAGATCCC
SARS-CoV-2_88_Forward	Pool_2	TCAGGTGATGGCACAACAAGTC
SARS-CoV-2_88_Reverse	Pool_2	ACGAAAGCAAGAAAAAGAGTACGC
SARS-CoV-2_89_Forward	Pool_1	CGACTACTAGCGTGCCTTTGTA
SARS-CoV-2_89_Reverse	Pool_1	ACTAGGTTCCATTGTCAAGGAGC
SARS-CoV-2_90_Forward	Pool_2	CCATGGCAGATTCCAACGGTAC
SARS-CoV-2_90_Reverse	Pool_2	TGGTCAGAATAGTCCATGGAGT
SARS-CoV-2_91_Forward	Pool_1	TCTTGTAGGCTTGATGTGGCT
SARS-CoV-2_91_Reverse	Pool_1	TGCTACTGGAATGGTCTGTGTTTA
SARS-CoV-2_92_Forward	Pool_2	ACACAGACCATTCCAGTAGCAGT
SARS-CoV-2_92_Reverse	Pool_2	TGAAATGGTGAATTGCCCTCGT
SARS-CoV-2_93_Forward	Pool_1	TCACTACCAAGAGTGTGTTAGAGGT
SARS-CoV-2_93_Reverse	Pool_1	TTCAAGTGAGAACCAAAAGATAATAAGCA
SARS-CoV-2_94_Forward	Pool_2	TTTGTGCTTTTTAGCCTTTCTGCT
SARS-CoV-2_94_Reverse	Pool_2	AGGTTCTGGCAATTAATTGTAAAAGG
SARS-CoV-2_95_Forward	Pool_1	TGAGGCTGGTTCTAAATCACCCA
SARS-CoV-2_95_Reverse	Pool_1	AGGTCTTCTTGCCATGTTGAG
SARS-CoV-2_96_Forward	Pool_2	GGCCCCAAGGTTTACCAATAA
SARS-CoV-2_96_Reverse	Pool_2	TTTGGCAATGTTGTCCTTGAGG
SARS-CoV-2_97_Forward	Pool_1	TGAGGGAGCCTTGAATACACCA
SARS-CoV-2_97_Reverse	Pool_1	CAGTACGTTTTTGCCGAGGCTT
SARS-CoV-2_98_Forward	Pool_2	GCCAACAACAACAAGGCCAAAC
SARS-CoV-2_98_Reverse	Pool_2	TAGGCTCTGTTGGTGGGAATGT
SARS-CoV-2_99_Forward	Pool_1	TGGATGACAAAGATCCAAATTTCAAAGA
SARS-CoV-2_99_Reverse	Pool_1	ACACACTGATTAAGATTGCTATGTGAG
SARS-CoV-2_100_Forward	Pool_2	AACAATTGCAACAATCCATGAGCA
SARS-CoV-2_100_Reverse	Pool_2	TTCTCCTAAGAAGCTATTAATAACACATGG
SARS-CoV-2_101_Forward	Pool_1	CTCACATAGCAATCTTTAATCAGTGTG
SARS-CoV-2_101_Reverse	Pool_1	GAGAGCTGCCTATATGGAAGAGC
SARS-CoV-2_102_Forward	Pool_2	TTTGTCACTTCTCCTAAGAAGCTATTA
SARS-CoV-2_102_Reverse	Pool_2	CCTAAGAAGCTATTAATAACACATGGG